Conference Preliminary Program

Tuesday, March 13, 2007		
8:00 am to 9:00 am	Registration and Continental Breakfast	
9:00 am to 9:15 am	Welcome	
9:15 am to 9:30 am	Conference Introduction	
9:30 am to 10:10 am	Keynote 1 – Dan Frayssinet, DP Technology	
10:10 am to 10:30 am	Coffee break	
10:30 am to 12:10 pm	P1: Process Monitoring of Turning and Model Adaptation for Smart Machining Systems. Heigel, J.C., <i>Ivester R.W.</i> P2: Production Process and Inventory Management for Machine Tool Companies: Analysis and Development of Optimisation Models <i>Bruzzone A. A. G., Lonardo P. M., Rossi E.</i> P3: An Approach for the Optimization of Machining Parameters Under Uncertainties using Intervals and Genetic Algorithms. <i>Vigouroux J. L., Deshayes L., Foufou S., Welsch L. A.</i> P4: SMS application for reduction of machining cost during a multi-process manufacturing plan. <i>Rigal JF., Mabrouki T.</i>	
12:15 pm to 12:45 pm	Poster Session	
12:45 pm to 1:30 pm	Lunch	
1:30 pm to 2:10 pm	Keynote 2: Modeling for High Performance Machining <i>Kerry Marusich</i> , Thirdwave Systems	
2:10 pm to 5:00 pm	Session 2: Smart Machining Systems	
	P5: Cutting Power Model-Sensor Integration for Tool Condition Monitoring. Jerard R. B., Xu M., Fussell B. K. P6: Dynamic Metrology Tool to measure the elastic deformation of Parallel Kinematics	
	Machines. Cano T., Béarée R., Ray P., Lavest J. M. Coffee Break	
	P7: Novel Linear Magnetic Bearings for Feed Axes with Direct Drives Schmidt A., Brecher C., Possel-Dölken F.	
	P8: Use of informative potential of the electromotive force to evaluate cutting conditions Matviyenko A.	
	P9: Logistic Regression-based Machine Health Assessment Method on Application of Smart Machine Tool. <i>Liao L., Huang B., Lee J.</i>	
	P10: Isogliden-TaRb: a Family of up to Five Axes Reconfigurable Fully-Isotropic Parallel Kinematic Machines. <i>Gogu G.</i>	

Wednesday, March 14, 2007	
8:00 am to 8:30 am	Continental Breakfast
8:30 am to 9:10 am	Keynote 3: Developments and Trends in Standards from Enterprise to the Shops Floor. <i>Steven Ray</i> , The U.S. National Institute of Standards and Technology
9:10 am to 12:00 pm	Session 3: Knowledge and Information Modeling for SMS
	P11: A Framework for Intelligent STEP-NC Controller Based on Multi-agent Hongbo L., Chengrui Z., Riliang L.
	P12: NCML: An XML Based NC Programming Language. Jerard R. J.
	Coffee Break
	P13: Process Visualization - The Sequel to NC Verification. <i>Esterling D. M.</i>
	P14: STEP-NC: Smart Data for Smart Machining. <i>Hardwick M., Loffredo D</i>
	P15: An Integrated Framework for Diagnosis and Maintenance of Machining Systems Deshayes L., Mihoc A. G., Hamand X., Maire R., Kouiss K.
	P16: Parametric Maintenance and Control of Vibration while Deep Hole Drilling Gouskov A. M., Panovko G. Y., Voronov S. A., Sinha S.C.
12:05 pm to 12:45 pm	POSTER presentation
12:45 pm to 1:35 pm	Lunch
1:30 pm to 2:10 pm	Keynote 4: Interoperability Requirements for Smart Machining Systems – from Sensors to CAD David Dornfeld, The University of California Berkeley
	Session 4: Smart Machining Processes Modelling and Control
	P17: Process Modeling of High Speed Cutting using 2D FEM Altan T., Al-Zkeri I., Sartkulvanich P.
	P18: Design and Analysis of Variable Micro-Edge Tooling for Machining Using 3-D Process Simulations Karpat Y., Özel T., Sockman J., Shaffer W.
	Coffee Break
2:10 pm to 5:00 pm	P19: Flank Millable Surface Design in 5-Axis Machining. <i>Li C., Bedi S., Mann S.</i>
	P20: Contact-based Collision Detection - A New Approach to Avoid Hard Collisions in Machine Tools. <i>Rudolf T., Brecher C., Possel-Dölken F</i>
	P21: An Investigation of Uncertainty in Impact Testing Kim H. S., Schmitz T. L.
	P22: Rolling ball method for 3-1/2-1/2-axis machining Roman A., Bedi S., Ismail F., Heyer JS.
6:30 pm to 7:30 pm	Reception
7:30 pm to 9:30 pm	Dinner

Thursday, March 15, 2007	
8:00 am to 8:30 am	Continental Breakfast
8:30 am to 11:20 am	Session 5: Machine Tool Performance Characterization and Metrology
	P23: Intelligent workpiece set up in Micro pattern machining on large surface Kim, J. S., Yang M. Y., Choi J. G.
	P24: Machine Tool Accuracy Quick Check in Automotive Tool & Die Manufacturing Omari M., Ajao D., Kampmann G. G., Schmadei I.
	P25: Compensation of Tool Deflections with an adaptronic milling machine Denkena B., Möhring H. C., Will J. C.
	P26: A Real Time System for Tool Wear Monitoring in Turning Process. Bruzzone A. A. G., Lonardo P. M., Traverso A.
	Coffee Break
	P27: Compensation of Lead Errors and Elastic Deformations in Ball Screw Drives. Kamalzadeh A., Erkorkmaz K.
	P28: Real-Time System Identification for Impact-Based Part Positioning Mears M. L., Falcon J.
11:20 am to 12:00 pm	Keynote 5: What is Smart? <i>George Hazelrigg,</i> The U.S. National Science Foundation
12:05 pm to 12:45 pm	POSTER presentation
12:45 pm to 1:30 pm	Lunch
1:30 pm to 2:45 pm	Session 6: Smart Components and Virtual Modelling
	P29: Constrained Identification of Virtual Drive Models using a Genetic Algorithm. Wong W., Erkorkmaz K.
	P30: Adaptronic Chatter Damping System for Deep Hole Drilling Weinert K., Kersting M.
	P31: Simulation of Surface-Microstructures Resulting from Milling Processes Weinert K., Ungemach E., Surmann T., Mehnen J.
2:45 pm to 3:25 pm	Keynote 6: Methodology and Tools for the Integration of Manufacturing Processes during the Collaborative Design of Systems, Serge Tichkiewitch, Laboratoire 3S Grenoble France
3:25 pm to 3:30 pm	Conference closure
3:45 pm to 5:30 pm	NIST Tour